

thick, 28th. Lunenburg, Vt., ice on ponds and streams 24 in. thick, 28th. Ice harvested 12 to 13 in. thick on Lake Champlain, at West Charlotte, Vt.

Frost in the ground.—At Council Grove, Kan., frost out of the ground, 2nd. Sandy Springs, Md., in southern exposures, frost disappeared from ground by 10th. Howard, Neb., frost nearly out of ground by 20th. Keokuk, frost out of ground, 21st. Flushing, N. Y., no frost in ground, 22nd. Kenton, Ohio, frost out of ground, 25th. Clear Creek, Neb., during winter ground frozen to a depth of 30 in., at close of month had thawed 8 or 10 in. Freehold, N. J., no frost in ground to a depth of 6 in. Brookhaven, N. Y., frost out of ground, and South Hartford, N. Y., ground having been protected so long by snow, the frost is largely out of ground.

PRECIPITATION.

Upon chart No. III is represented the amount of rain-fall, including melted snow. For Virginia City the total is 0.73 in. At Portland, Or., the fall has exceeded the average. In the remaining sections there has been a deficiency.

Stations reporting the precipitation zero or not sufficient to measure.—Fort Wayne, (Detroit,) Port Huron and Litchfield, Mich.; Fort Ripley, New Ulm and Minneapolis, Minn.; Independence, Iowa; Webster, N. C.; Beloit, Wis.; Camp Sheridan, Neb.; Fort Laramie, Fort Sanders and Camp Staumbaugh, Wy.

Stations reporting one-tenth of an inch, or less, of precipitation for the month.—Fort Abercrombie, Fort Seward, Pembina and Firesteel, Dak.; Fort Snelling, Duluth, St. Paul and Breckenridge, Minn.; Fort Fred Steele, Wyoming; South Pueblo, Col.; Chicago, Rockford, Riley, Havana and Peoria, Ill.; Fort Wayne, Ind.; Rockford, Independence, Cresco and Davenport, Iowa; Detroit, Grand Rapids, Northport and Grand Haven, Mich.; Wet Glaze, Mo.; Vermillion, N. Y.; Little Mountain, Hudson and Toledo, Ohio; Snowville, Va.; Bloomfield, Wautoma, Neillsville and Milwaukee, Wis.; Rockliffe and Kingston, Canada.

Maximum rain-falls for the month.—Melissa, Tex., 13.06 (?); Brownsville, Tex., 7.99; Portland, Or., 7.56; Austin, Tex., 6.94; Denison, 6.89; Corsicana, 6.84; New Ulm, Tex., 6.75; Boerne, Tex., 6.46; Cape Hatteras, 5.85 inches.

Heavy Rains.—Melissa, Tex., from 7 a. m. 1st to 12:30 p. m. 3rd, 5 in., and 9 a. m. 11th to 3 p. m. 13th, 7.31 in. Austin, Tex., from 9 p. m. 1st to 7 a. m. 2nd, 2 in., 7 a. m. 11th to 7 p. m. 12th, 2.24 in., and 12 m. 27th to 12 night 28th, 2.70 in. New Ulm, Tex., from 1:30 p. m. 11th to 8 p. m. 12th, 3.62. Corsicana, 28th, 2.20 in. Denison, 1st and 2nd, 3.28 in., and 12th, 2.26 in. Cape Hatteras, 5th, 3.17 in., and 16th, 2.45 in.

Snow-fall for the month varies as follows: from Maine to the northern portions of New York and Pennsylvania, 0.5 to 10 in.; southern New England to Maryland, 0 to 8; West Virginia, 3; western North Carolina, 1.5 to 3.5; Ohio, 0.5 to 1; Upper Lake region, 0.25 to 3; Illinois and Missouri, 0 to 1; Iowa and eastern Nebraska, 0.25 to 2.5; Kansas, 1.25 to 5; Colorado, at Golden, 5, and Summit, 33; Utah, at Coalville, 2 inches.

Depth of Snow at close of month: in northern New England reports vary from 12 to 22 inches; southern New England, 0 to 10; northern portions of New York and Pennsylvania, 2 to 20; Upper Lake region, 0 to 0.5; Coalville, Utah, 1 inch.

Cloudy Days.—The number of days on which the cloudiness has averaged eight-tenths or more, as reported by the volunteer observers, ranges as follows: New England, 2 to 16; Middle States, 3 to 12; South Atlantic States, 2 to 14; Gulf States, 7 to 14; Arkansas, Tennessee and the Ohio valley, 3 to 11; Upper Lake region, 4 to 8; Northwest, 1 to 12 days.

Rainy Days.—The number of days during the month on which rain or snow, in any quantity, has fallen, ranges as follows for the Signal Service stations: New England, 3 to 15; Middle Atlantic States, 3 to 10; South Atlantic States, 5 to 8; Eastern Gulf States, 4 to 11; Western Gulf States, 5 to 12; Indian Territory, Arkansas, Tennessee and the Ohio valley, 4 to 9; Lower Lake region, 3 to 14; Upper Lake region, 3 to 10; Northwest, 3 to 8; Rocky Mountain stations, 5 to 12; California coast, 1 to 7 days.

Droughts.—Belvidere, Ill., dryest month in ten years. Waltham, Mass., drought has prevailed. Shelburne, N. H., springs low 13th. South Hartford, N. Y., streams and fountains low during month, but beginning to rise at close. Ruggles, Ohio, a very dry month. Ringgold, Ohio, smallest rain-fall ever recorded in February. Woodstock, Vt., drought still continues; wells and springs dry. Snowville, Va., month dry and water low. Wytheville, Va., on 22nd a drought, no rain having fallen for over a month.

RELATIVE HUMIDITY.

The average relative humidity for the month, as reported from the Signal Service stations, ranges as follows: in New England, 65 to 78 per cent; Middle Atlantic States, 52 to 66; New Jersey and North Carolina coast stations, 70 to 76; South Atlantic States, 60 to 69; Gulf States, 64 to 76; Indian Territory, Arkansas, Tennessee and the Ohio valley, 59 to 70; Lower Lake region, 65 to 73; Upper Lake region, 66 to 75; Missouri and Upper Mississippi valleys, 63 to 73; Valley of the Red River of the North, 67 to 83; Rocky Mountain stations, 53 to 75; California coast, 70 to 74; Key West, 80; Mt. Washington, 85.